



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

**MEMORANDUM TO:** Project Engineers  
Project Design Engineers

**FROM:** Timothy V. Rountree, P. E.  
State Bridge Design Engineer

**DATE:** February 15, 2002

**SUBJECT:** PRECAST BOX CULVERTS

At the request of the Construction Unit, the option to construct a Precast Box Culvert in lieu of the cast-in-place culvert shown in the plans shall be limited to Divisions 5, 7 and 9-14. Further, do not allow the Precast Box Culvert Option if the maximum design fill over the culvert exceeds 10 ft (3m).

In addition to limiting the use of the Precast Box Culvert Option, various changes to construction procedures such as prohibiting the use of precast wings, constructing a concrete leveling pad, jacking precast units together, and internally and externally sealing transverse box joints will be reflected in the Project Special Provisions.

This revision is intended to reduce construction problems associated with precast box culverts as well as maintenance concerns such as differential settlement of the precast box units.

This policy is effective immediately. The Design Manual, Project Special Provisions, and the Precast Box Culvert Standard will be revised to reflect this policy at a later date.

TVR/JTE

Cc: P. A. Simon, P. E.  
R. V. Keith, P. E.  
G. R. Perfetti, P. E.  
C. O. Wiggins, P. E.  
R. Hancock, P. E.